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PID/ABCB 233/64
5 November 1964
Copy # _____

MEMORANDUM FOR: Chief, Nuclear Energy Division, OSI

ATTENTION: _____

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THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID(NPIC)

SUBJECT: Nan-K'ou Area Facilities and Search for Sites
Reported in CS-311/02994/64REFERENCES: Requirement No. C-SI4-81,786
CIA Project No. C 1473/64

1. In response to requirement C-SI4-81,786/64 requesting measurements of major buildings, availability of power (electric) and water, and measurements of power and water facilities a search was conducted of two areas in the vicinity of Nan-K'ou, China (subject of CIA Project No. C 1216/64). A search was also conducted for the two sites mentioned in report #CS-311/02994/64 which are not at the same location as the first two areas mentioned. These last two sites will be described in the latter part of this memorandum. For ease in reporting the first two mentioned facilities around Nan-K'ou will be termed Area 1 and Area 2 and the two facilities referenced in report CS-311/02994/64 will be termed Site 1 and Site 2. An annotated map and annotated photographs of these areas and sites are enclosed.

2. Area 1 is located approximately 2 nautical miles (nm) NE of Nan-K'ou and approximately 24 nm NW of Peiping at approximately 40-16N 116-09E. Area 2 is located approximately 6 nm south of Nan-K'ou and approximately 18 nm NW of Peiping at approximately 40-08N 116-08E.

3. Area 1 - The Hu-Yu-Kou River passing approximately 1,000 feet east of this site does not appear to be utilized as a water source since no pumphouse was observed along the river in the vicinity of this area. A small dam is situated approximate $\frac{1}{2}$ nm upstream but there is no discernible connection between the dam and this area. The Chang-ping Dam Shih San Ling is located approximately 5.5 nm east of this area. No indications that this dam is a water source for the area were noted. An old water diversion channel passes approximately 400 feet south of this area in an east-west direction starting west of Nan-K'ou and continuing intermittently to the drainage area supplying the before mentioned dam. This water diversion channel was present before this area was established and does not appear to be used for supplying water.

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An unidentified ground trace leads south-southeast in a straight line from the southeastern vicinity of the area to one or two small buildings approximately 1.2 nm away. From these small buildings one

goes south for about 1500 feet before it is lost. Wells are probably used to supply water for this area and these small buildings may comprise the water facility. Small scale and obliquity preclude any conclusive measurements of these buildings associated with the unidentified trace.

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No powerlines or powerline traces could be identified within the immediate vicinity of the area.

4. Area 2 is located approximately 6 nm south of Nan-K'ou and immediately south of the possible Headquarters/Support Installation for a reported Armor Training Complex (TIB-TK-66-63). No powerlines or powerline traces could be identified in the immediate vicinity of this area. No facilities for cooling, retaining or obtaining water were identified on photography other than the previously reported small possible water retention basins located west of the walled area. The water table is probably quite high as indicated by natural springs in the nearby vicinity of this area. Water for support of this area is probably obtained from wells.

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5. A recent report dated September 1964 covering a 10 nm radius search around Chang-Ping for a reported reactor site describes the two above mentioned areas. The report includes measurements and line drawings of these areas.

6. The locations of Sites 1 and 2 referenced in report CS-311/02994/64 were searched for on KEYHOLE and photography. Various discrepancies occur in correlation between photography and the above mentioned report. Site 1 is located west of Sha-ho-chen at approximately 40-07N 116-15E. The correlation between Site 2 as based on the CS report and available photography was difficult to establish. Two possible locations of this site are described. One location is at 39-59-50N 116-30-20E and the other is at 40-01-40N 116-33-30E.

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7. Site 1 as described in CS-311/02994/64 covers the iron and coke industry west of Sha-ho-chen and an unsecured unidentified installation immediately north of the walled iron and coke industry. Site 1 does not cover a depth of 5 to 6 miles on photography as mentioned in the referenced report. If the 5 to 6 mile depth for the complex were accurate the source would have seen the tall stack in Area 2 near Yang-Fang-Chen

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(Area 2 mentioned in the early part of this report is south of Yang-Fang-Chen). This is unlikely however, in that the report mentions that the stacks sighted were on the eastern fringe of a large number of buildings. The stack at Area 2 (Yang-Fang-Chen) would have been at the extreme western edge of the complex. Two stacks that could be the stacks mentioned in the CS report were located but these are not oriented in the positions indicated in the report. The building with the mushroom-shaped ventilators could not be located.

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8. The location of Site 2 as described in the before mentioned CS report could not be correlated directly to available [] and KH photography. There is only one railroad crossing the road to the Peiping Central Airfield and this railroad does not lead directly to any site approximately three-quarters of a mile from the road as indicated by the CS report. One site not discussed in this memo is located directly in line with the railroad but the railroad turns westward before reaching the site. This site is secured but is quite small and has none of the characteristics of a reactor site. Two other sites having at least one tall stack and located approximately three-quarters of a mile south-east of the road were located. These are annotated on the enclosed map and photographs as possible locations of Site 2. Neither of these sites is rail served, and extra security is not evident. One of these sites is located approximately 5nm from Peiping at 39-59-50N 116-30-20E. It is situated near the northern edge of a large circular track probably used for testing locomotives and railcars. The site contains one tall stack, a probably filter and exhaust building, four rectangular buildings, several small buildings and an open storage area. The stack appears to be wider at the top, similar to the drawing in the CS report, but the scale of both the KH and [] photography does not permit positive identification of this feature. The site is located in the immediate vicinity

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of a small village. The other site is located approximately 8 nm from Peiping at 40-01-40N 116-33-30E. This site contains one tall stack, a probable filter and exhaust building, a probable water stand pipe, a large square building with four monitors, a rectangular building at least 2 stories in height and at least six smaller buildings. No security is evident at this site.

9. The sites referenced in the CS report do not appear to be strong candidates for reactor sites. No cooling towers, large water supply or extra security precautions were evident at these sites.

10. The following photography was utilized in answering this requirement:

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11. All measurements on the enclosed graphics were compiled by TID/TAB(NPIC) with the exception of those marked with an asterisk (*). These measurements were made by the photo interpreter on this project. All measurements are to be considered approximate. Those measurements compiled by TID/TAB(NPIC) can be given the following degree of accuracy:

Horizontal Distances: $\pm 5\%$ or $\pm 5'$ - whichever is greater
Vertical Distances $\pm 10\%$ or $\pm 5'$ - whichever is greater

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12. The photo analyst on this project was [redacted] who may be contacted on extension [redacted] should you have further questions regarding this requirement. This memorandum with enclosures completes the referenced requirement.

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Enclosures:

CIA/PID/ABCB/P-311 thru 319/
1 Map & 7 Photo Enlargements
Total of 8 Enclosures

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25X5

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AREA #1 NEAR NAN-K'OU, CHINA

25X1

E F
C D
A B

LEGENDBUILDINGMEASUREMENTS

25X1

A	220 x 155 x <input type="checkbox"/> High	
B	130 x 45	25X1
	Asso. Stack - <input type="checkbox"/> High	
C	150 x 90	
D	105 x 45 x <input type="checkbox"/> High	25X1
E	105 x 65 (wide section) x	
	25 High	
F	145 x 40 x <input type="checkbox"/> High	25X1

NOTE: Measurements shown were determined by
photogrammetrists in TID/TAB(NPIC)

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TOP SECRET RUFF

25X1

CIA/PID/ABCB/P-313/64

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TOP SECRET

25X1

AREA #1 NEAR NAN-K'OU, CHINA

LEGEND

25X1

BUILDINGMEASUREMENTS

25X1

25X1

A	220 x 155 x <input type="checkbox"/> High	
B	130 x 45	
	Asso. Stack - <input type="checkbox"/> High	
C	150 x 90	25X1
D	105 x 45 x <input type="checkbox"/> High	
E	105 x 65 (wide section) x	
	25 High	25X1
F	145 x 40 x <input type="checkbox"/> High	25X1

TIC

NOTE: Measurements shown were determined by
photogrammetrists in TID/TAB(NPIC)

CIA/PID/ABCB/P-313

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25X1

TOP SECRET

25X1

COMPARATIVE COVERAGE OF AREA #1 NEAR
25X1 NAN-K'OU, CHINA



25X1
CIA/PID/ABCB/P-314/64
TOP SECRET 25X1

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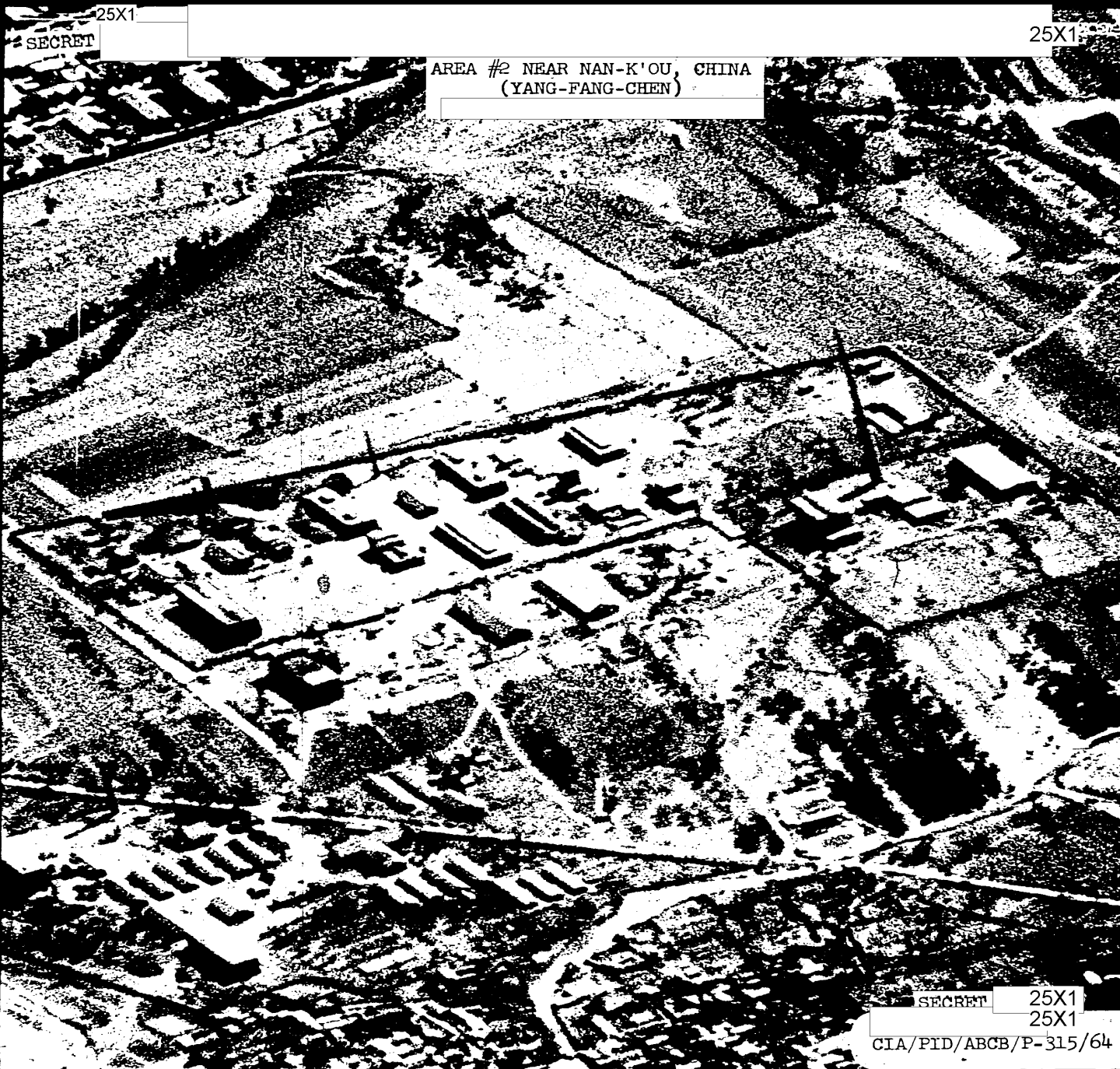
A B C D E F G

LEGEND

<u>BUILDING</u>	<u>MEASUREMENTS</u>	
A	225 x 65 x 35 High	
B	210 x 45 x 20 High	
	Asso. Stack - 90 High	
C	220 x 50 x 15	
D	155 x 65	
	High Bay Section -	25X1
	15 x 65 x <input type="checkbox"/> High	
E	Stack - <input type="checkbox"/> High	25X1
F	120 x 55*	
	High Bay Section -	
	70 x 55 x 20	
G	200 x 60 x 20 High	

NOTE: Measurements shown were determined by photogrammetrists in TID/TAB(NPIC) with the exception of those with an asterisk by them. These were determined by PI Officers in CIA/PID.

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25X1

SECRET

25X1

AREA #2 NEAR NAN-K'OU, CHINA
(YANG-FANG-CHEN)

LEGEND

<u>BUILDING</u>	<u>MEASUREMENTS</u>
A	225 x 65 x 35 High
B	210 x 45 x 20 High Asso. Stack - 90 High
C	220 x 50 x 15
D	155 x 65 High Bay Section - 15 x 65 x High
E	Stack - High
F	120 x 55* High Bay Section - 70 x 55 x 20
G	200 x 60 x 20 High

NOTE: Measurements shown were determined by
photogrammetrists in TID/TAB(NPIC) with

the exception of those with an asterisk
by them. These were determined by PI
Officers in CIA/PID.

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25X1
CIA/PID/ABCB/P-315/64

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TOP SECRET

U/I SITE

MATERIAL STORAGE

ROAD

RAILROAD

SHA-HO COKE AND IRON PLANT

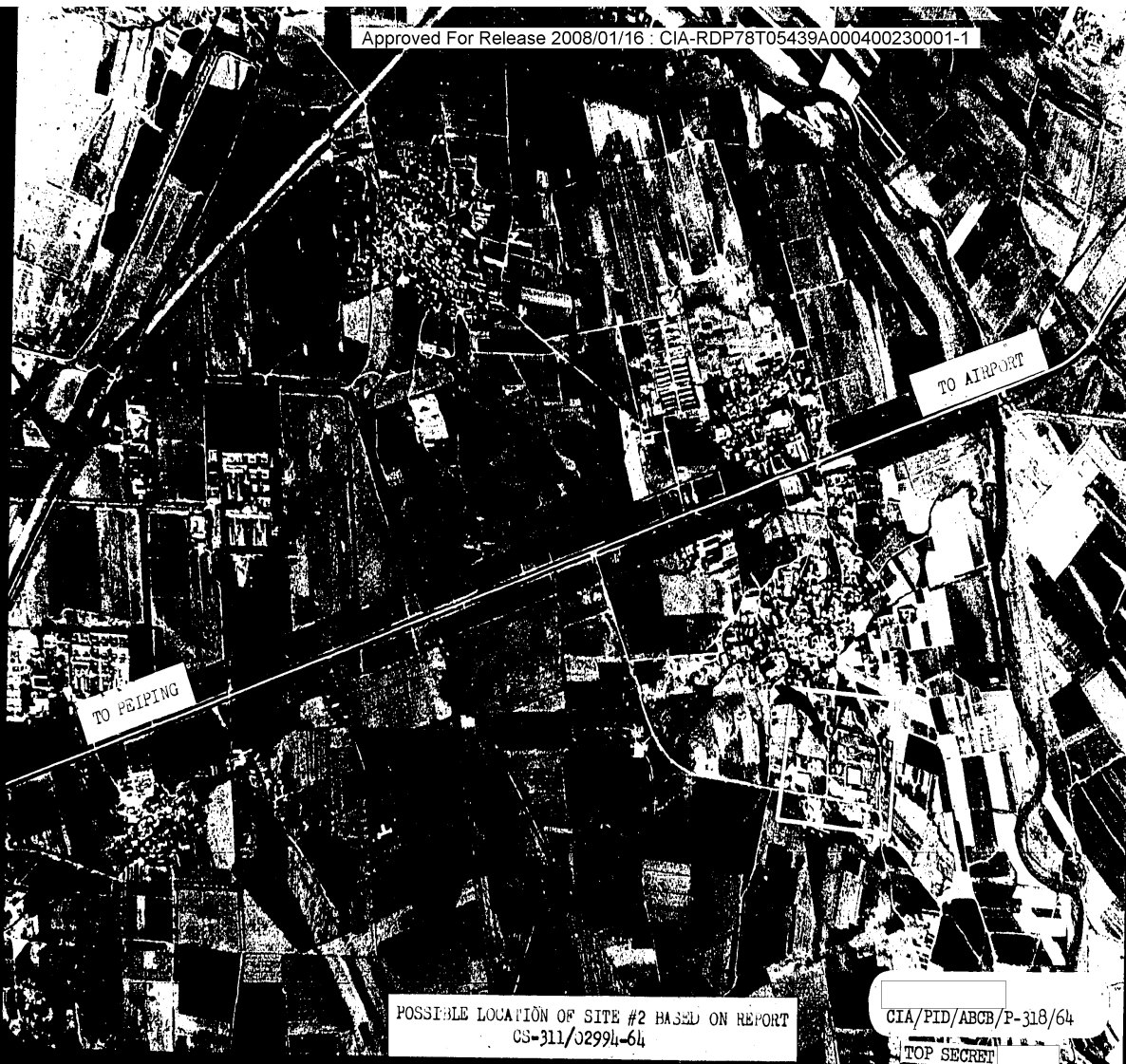
SITE #1 BASED ON REPORT
CS-311/02994-64

25X1
CIA/PID/ABCB/P-316/61

TOP SECRET 25X1

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POSSIBLE LOCATION OF SITE #2 BASED ON REPORT
CS-311/02994-64

CIA/PID/ABCB/P-318/64
TOP SECRET

25X1

25X1